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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10597307
	Filing Date		2005-02-02
	First Named Inventor	Andrea Marziali	
	Art Unit	1759	
	Examiner Name	Alex Noguerola	
	Attorney Docket Number	B719 0005/GNM	

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	4	5384022	A	1995-01-24	Rajasekaran	
	5	6036831	A	2000-03-14	Bishop	
	6	6693620	A	2004-02-17	Herb	
	7	6824664	B1	2004-11-30	Austin	
	8	6893546	B2	2005-05-17	Jullien	

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	4	20050247564	A1	2005-11-10	Volkel	
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	1	2002042500	WO	A2	2002-05-30	Mitsuhashi		<input type="checkbox"/>
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	1	Asbury, Charles L. and Ger van den Engh, "Trapping of DNA in nonuniform oscillating electric fields", Biophysical Journal, 1998, 74:1024-1030.	<input type="checkbox"/>
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6	Rousseau, J., et al., "Gel electrophoretic mobility of single-stranded DNA: The two reptation field-dependent factors", Electrophoresis, 2000, 21(8):1464-1470.	<input type="checkbox"/>
7	Slater, G.W., et al., "Recent developments in DNA electrophoretic separations", Electrophoresis, 1998, 19 (10):1525-1541.	<input type="checkbox"/>
8	Slater, G.W., et al., "Theory of DNA electrophoresis: a look at some current challenges", Electrophoresis, 2000, 21:3873-3887.	<input type="checkbox"/>
9	Turmel, Chantal, et al, "Molecular detrapping and band narrowing with high frequency modulation of pulsed field electrophoresis", Nucleic Acids Research, 1990, 18(3):569-575.	<input type="checkbox"/>
10	Viovy, J.L., "Electrophoresis of DNA and other polyelectrolytes: Physical mechanisms", Review of Modern Physics, 2000, 72(3):813-872.	<input type="checkbox"/>
11	Office Action mailed 27 December 2010 for US Patent Application No. 11/815,760, Marziali, et al., filed 7 February 2006, 29 pages.	<input type="checkbox"/>
12	Office Action mailed 19 August 2011 for US Patent Application No. 11/815,760, Marziali, et al., filed 7 February 2006, 26 pages.	<input type="checkbox"/>

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Signature	/JenniferAMarles/	Date (YYYY-MM-DD)	2011-10-20
Name/Print	Jennifer A. Marles	Registration Number	66114

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